**exp3**.arithmetic:

#!/bin/bash

# Addition

echo -n "Enter the first number: "

read x

echo -n "Enter the second number: "

read y

z=$((x + y))

echo "sum$z"

# Subtraction

echo -n "Enter the first number: "

read x

echo -n "Enter the second number: "

read y

a=$((x - y))

echo "sub$a"

# Multiplication

echo -n "Enter the first number: "

read x

echo -n "Enter the second number: "

read y

b=$((x \* y))

echo “mul$b"

# Division

echo -n "Enter the first number: "

read x

echo -n "Enter the second number: "

read y

c=$((x / y))

echo "div$c"

2.loops:

#!/bin/bash

echo "Enter the number"

read num

fact=1

for (( i=2; i<=num; i++ ))

do

fact=$((fact \* i))

done

echo "Factorial of the number is:"

echo $fact

Exp 4 #!/bin/bash

echo "Enter a number:"

read n

for (( i=1; i<=n; i++ ))

do

for (( j=1; j<=i; j++ ))

do

echo -n "\* "

done

echo # move to the next line after printing each row

done

Exp 6:last login details

#!/bin/bash

echo "Print last login details"

echo

# Get last login time for the user

ll=$(last -1 -R $USER | head -1 | cut -c 20-)

echo "Last login details:"

echo "Time: [$ll]"

# Set PS1 to show the last login time in the prompt

export PS1="Last login time: [$ll] \n\n:\w\$ "

exp7-arguments:

#!/bin/bash

echo "Print the number of arguments"

# Counting the number of arguments

num\_args=$#

echo -e "\nThe number of arguments passed to the file is: $num\_args"

# Printing all arguments

echo -e "\nThe arguments are:"

for arg in "$@"

do

echo "$arg"

done

Exp 12HOST NAME WALA:

#!/usr/bin/bash

echo "Add Hostname and IP to etc folder"

echo ""

echo "Entered Hostname : $2"

echo ""

echo "Entered IP : $1"

echo ""

echo "$1 $2" >> /etc/hosts

echo -n "Host and IP Added Successfully"

echo ""

Exp 11VOWEL:

#!/usr/bin/bash

echo "print whether vowel or consonant"

echo "skill lab"

echo

echo -n "Enter a character: "

read char

if [[ $char =~ [aeiouAEIOU] ]]

then

echo "vowel"

else

echo "consonant"

fi